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Dwg. Cat. No. 8502-1

Department of Commerce and Labor  
COAST AND GEODETIC SURVEY

O. N. Littmann  
Superintendent.

State: Alaska

DESCRIPTIVE REPORT.

Hgld. Sheet No. 3176

LOCALITY:

Mushagak Bay -  
Upper Part

1909

CHIEF OF PARTY:

W. C. Dibble

C. & G. SURVEY,  
LIBRARY AND ARCHIVES

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No.

3176

For general report, see #45-SX 1909 II acc. No. 64227

**3176**

DEPARTMENT OF COMMERCE AND LABOR

Coast and Geodetic Survey

O.H. Tittmann, Sup't.

Hydrographic Sheet No. **3176**

(Field Sheet No. 6)

JULY 7 1910

COAST AND GEODETIC SURVEY  
LIBRARY AND ARCHIVES

Nushagak Bay, Upper Part

ALASKA

Steamer EXPLORER

Walter C. Dibrell, Assistant, Chief of Party

Begun .... Sept. 15, 1909

Completed.. " 16, 1909

Scale 1 - 20 000

Hydrography in charge of: A. R. Hunter, W. O.

Projection by S. W. Tay, Aid

Positions plotted by A. R. Hunter, W. O.

Soundings " " A. R. Hunter, W. O.

# # # # # # # # # # # #

725

**3176**

Hydrographic Sheet # 6

OBSERVERS:

A. R. Hunter, W. O., in charge

LIBRARY AND ARCHIVES  
111271010  
AUG 1942

S. W. Tay, Aid

RECORDER:

William Luker, Writer 2nd class

LEADS MAN:

Oscar Hanson, Quartermaster 2nd class

TIDE OBSERVERS:

Robert Marquart, Seaman

Tides observed at staff # 4, 1 3/4 miles below Fillingham.

DESCRIPTIVE REPORT TO ACCOMPANY HYDROGRAPHIC  
SHEET NO. (FIELD NO. 6), NUSHAGAK BAY, ALASKA, UPPER PART.  
SCALE 1 - 20,000.

This is a small sheet showing the development of the channel along the western side of Nushagak Bay from a point 1 1/2 miles below Williams Island up to the upper canneries. The soundings cover an area about one mile in average width and five miles long. This is the only channel navigable at low water above Nushagak, the eastern part of the bay being shoal and largely bare at low water. The sheet joins #1 at the southern end and its northern end marks the upper limit of the surveys made in Nushagak Bay.

2. The sounding was done from the launch. The lines run transversely to the channel and are spaced an average distance of 200 meters apart.

3. All of the positions and soundings have been plotted by the field party but the sheet is transmitted uninked.

4. Tides were observed on staff #4, located 1 3/4 miles below Billingham. Tidal reductions for soundings on this sheet are somewhat approximate owing to imperfect connection of staff with plane of reference as determined at Clark Point.

Respectfully submitted,

*Abeen Dreel*

Assistant, C. & G. Survey,

Chief of Party.

To the Superintendent,

Coast and Geodetic Survey,  
Washington, D. C.

3176

## Hydrographic Sheet # ..... 6

## STATISTICS

ADD NO. 3  
 311871010  
 CHESAPEAKE AND ARUNACHAL  
 OCEAN SURVEY

Date 1909	Vol.	Let.	Miles (Stat.)	Sdgs.	Angles	Remarks
Sept. 15	20	s'	36	814	318	Launch # 38
" 16	20	t'	28	739	244	"
	2	1	2	64	1553	562

Area = 7.49 Stat. miles.

V.E.C.  
Aug. 9, 1910.

HYDROGRAPHIC SHEET 3176.

Nushagak Bay, upper part, Alaska, by Asst.  
W. C. Dibrell in 1909.

TIDES.

	Staff 4 1 3/4 miles below Dillingham	ft.
Mean lower low water, or plane of reference on staff	1.9	
Lowest tide observed " "	-0.2	
Highest " " " "	25.7	
Mean range of tide	17.0	

Coast and Geodetic Survey  
AUG 31 1910  
TIDAL DIVISION.

Lyd Sheet No 3176

Sept. 30, 1910.

The area covered by this survey is well developed. The descriptive report states that the tidal reductions for soundings on this sheet are somewhat approximate owing to imperfect connection of staff with plane of reference as determined at Black Pt.

The sounding records were kept in a satisfactory manner.

H. L. Stevens